



SPYWOLF

Security Audit Report

(TESTNET)



Completed on
April 19, 2023

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OVERVIEW

This audit has been prepared for **LUNATICS** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

”

- SPYWOLF Team -





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LUNATICS



PROJECT DESCRIPTION

According to their website

LUNATICS is Revolutionary Multi-Chain Defi Ecosystem! Lunatics Token is rewarding investors and burning Terra Luna Classic supply. Lunatics token Ecosystem platform that aims to provide users with a DEX, wallet, and crypto banking system, all in one place.

Our platform is designed to be user-friendly, secure, and transparent.

Release Date: Presale starts in April, 2023

Category: Meme token



CONTRACT INFO

Token Name
Lunatics

Symbol
LunaT

Contract Address
0x387c580cdd1dac8de4724549ea50738ec715dda7

Network
Goerli **TESTNET**

Language
Solidity

Deployment Date
Apr 18, 2023

Verified?
Yes

Total Supply
100,000,000,000

Status
Not launched

TAXES

Buy Tax
8%

Sell Tax
8%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of April 19, 2023)



Liquidity

Not added yet



Burn

No burnt tokens

Status:
Not Launched!

MaxSellTxAmount
1,000,000,000

DEX:

LP Address(es)

Liquidity not added yet



TOKEN TRANSFERS STATS

Transfer Count	TESTNET
Uniq Senders	TESTNET
Uniq Receivers	TESTNET
Total Amount	TESTNET
Median Transfer Amount	TESTNET
Average Transfer Amount	TESTNET
First transfer date	TESTNET
Last transfer date	TESTNET
Days token transferred	TESTNET

SMART CONTRACT STATS

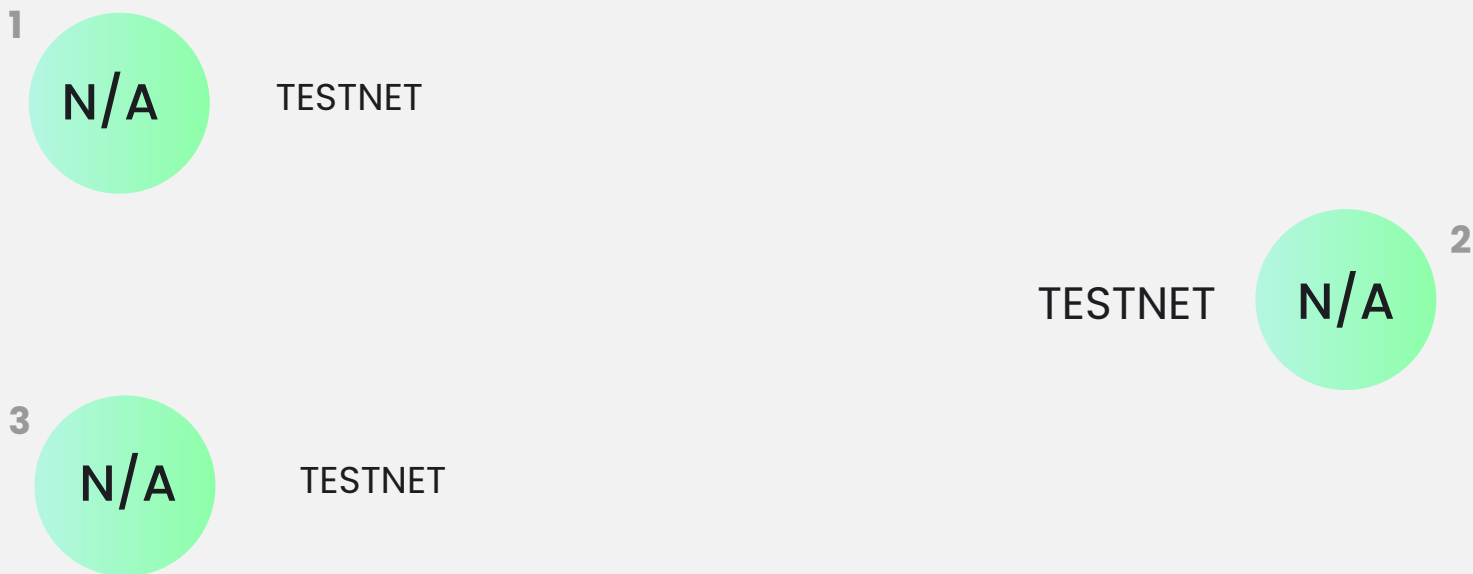
Calls Count	TESTNET
External calls	TESTNET
Internal calls	TESTNET
Transactions count	TESTNET
Uniq Callers	TESTNET
Days contract called	TESTNET
Last transaction time	TESTNET
Created	TESTNET
Create TX	TESTNET
Creator	TESTNET



FEATURED WALLETS

Owner address	0x4EE2C58d7009c4aE175d1986449679D6C79d5E65
LP address	TESTNET

TOP 3 UNLOCKED WALLETS





VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



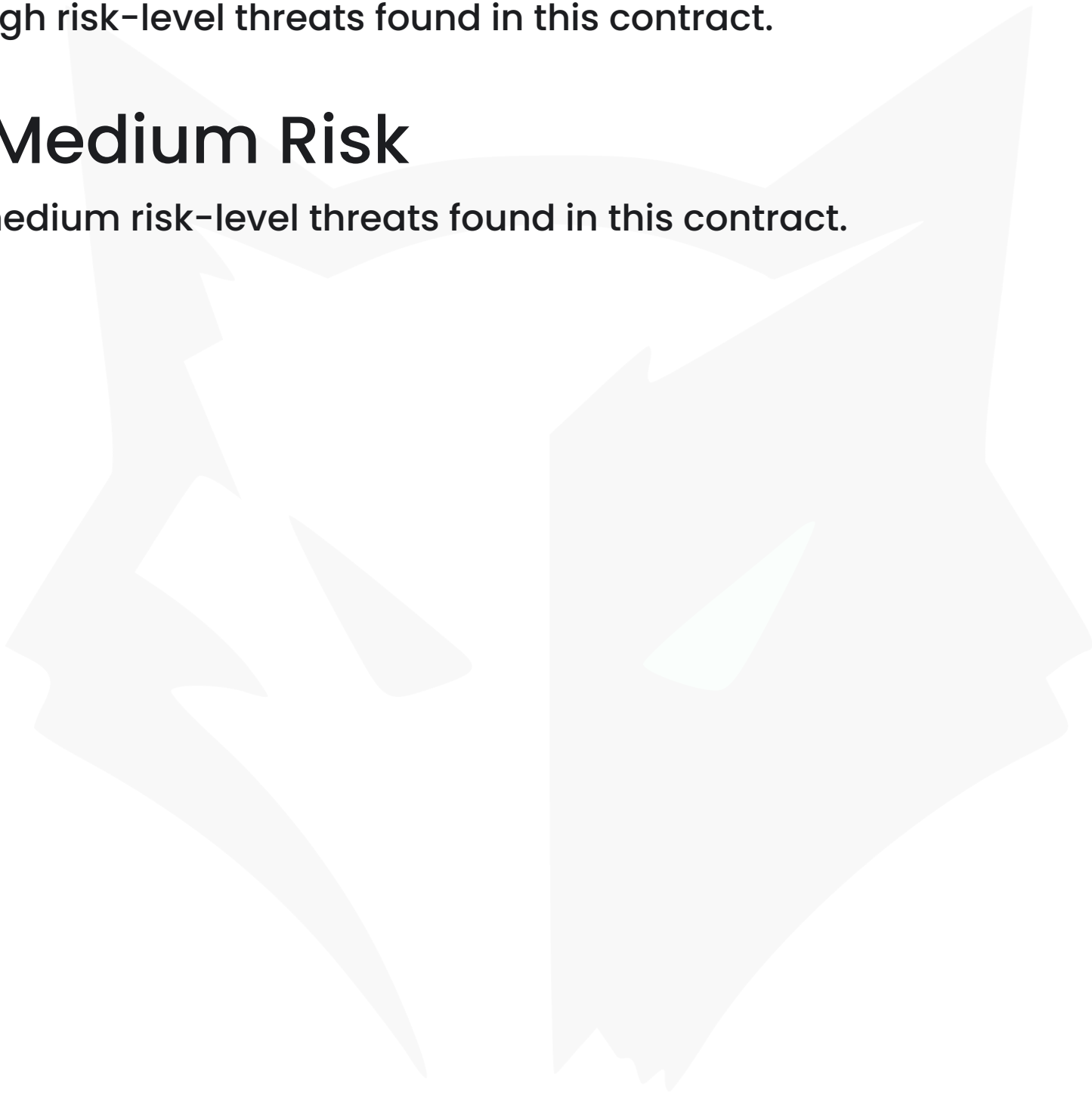
FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.





⚠ Low Risk

Owner can set buy/sell fees up to 15%.

Combined buy+sell = 30%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make. Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function setBuyTaxes(
  uint64 _rewards,
  uint64 _marketing,
  uint64 _buyback
) external onlyOwner {
  totalBuyFee = _rewards + _marketing + _buyback;
  require(totalBuyFee <= 15, "Total buy fees cannot be more than 15%");
  buyFees = Fees(_rewards, _marketing, _buyback);
}

function setSellTaxes(
  uint64 _rewards,
  uint64 _marketing,
  uint64 _buyback
) external onlyOwner {
  totalSellFee = _rewards + _marketing + _buyback;
  require(totalSellFee <= 15, "Total sell fees cannot be more than 15%");
  sellFees = Fees(_rewards, _marketing, _buyback);
}
```

- Recommendation:
 - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.



Informational

Owner can withdraw any tokens from the contract.

When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them. Owner can withdraw BNB from the contract.

```
function transferETH() external onlyOwner {
    uint256 ETHbalance = address(this).balance;
    payable(owner()).sendValue(ETHbalance);
}

function transferToken(address _token, address _to, uint _value) external onlyOwner returns(bool _sent){
    if(_value == 0) {
        _value = IERC20(_token).balanceOf(address(this));
    }
    _sent = IERC20(_token).transfer(_to, _value);
    emit TokenRemovedFromContract(_token, _value);
}
```

Owner can set max sell transaction limit but cannot lower it than 0.1% of total supply.

```
function setMaxSellTxAmount(uint _value) external onlyOwner {
    maxSellTxAmount = _value*10**decimals();
    require(maxSellTxAmount >= totalSupply() / 1000,
        "maxSellTxAmount should be at least 0.1% of total supply.");
    emit MaxSellChanged(_value);
}
```



Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    excludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}

function excludeMultipleAccountsFromFees(address[] calldata accounts, bool excluded) public onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        excludedFromFees[accounts[i]] = excluded;
    }
    emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

LUNATICS

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner can set a transaction limit, but can't lower it than 0.1% of total supply



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.